framatome

Qualified digital multi-protection relay

Design, delivery and installation of qualified Siprotec 5

Framatome's solution for the qualified digital multi-protection relay ensures a safe and reliable plant operation by using sustainable and latest technology.



Siprotec5 series qualified by Framatome
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Challenge

The increasing demands on monitoring and complex functions are not economically feasible today by using conventional and software-free relays.
Nevertheless, the requirements of a software suitability analysis remain the same, especially for safety-related protection relays.

Solution

Framatome's solution for the qualified digital multi-protection relay is adjustable according to individual and plant-specific requirements. The protection algorithm covers a large spectrum of protection features such as overcurrent, short circuit, differential, thermal, negative sequence (open phase condition) and unbalanced load protection and more.
Configuration of protection, control and automation functions can be configured via engineering software DIGSI 5.
Real-time measurements and comprehensive event logging monitors and analyzes the grid. The modular design allows expanding to meet changing requirements.

Customer benefits

- Easy replacement of existing protection relays against qualified digital multi-protection relay.
- Fast project execution by short production times and available test evidences.
- Implementation of grid analyses for parametrization.
- Reduction of spare parts management.

Technical Information

- Universally usable for all electrical protection requirements
- Up to 73 protection and automation functions tested according to:
  - IEC 60225, EN61000-6-2, EN610000-6-4
  - IEC/IEEE 60780-323
  - IEC/IEEE 60980-344 up to 100 m/s^2
  - IEC 60880
- State-of-the-art technology
- Flexible and modular
- Latest standards in cybersecurity
- Long-term availability

Key figures

> 10 years operational experience

Contact : electrical-systems@framatome.com
www.framatome.com

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